



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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March 28, 1996

Farley Anderson
Northshore Limited Partnership
1990 West 3300 South
Ogden, Utah 84401

Re: Tentative Approval, Northshore Limited Partnership, Northshore Natural Processing Solar Evaporation Facility, M/003/037, Box Elder County, Utah

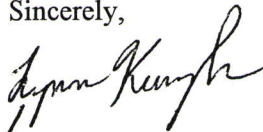
Dear Mr. Anderson:

The Division is prepared to issue Tentative Approval of your permit application for the Northshore Natural Processing Solar Evaporation Facility, located on the shores of the Great Salt Lake, N1/2 N1/2 of Section 9, Township 11 North, Range 9 West, Box Elder County, Utah. The approval is for 20.4 acres of surface disturbance. The total reclamation cost is estimated to be \$3,800.00. A copy of the reclamation estimate is enclosed.

We have published the tentative approval notice in the local and area newspapers which will run for a 30-day period, starting April 3, 1996. Upon receipt of the reclamation surety and reclamation contract, we will be prepared to go before our Board of Oil, Gas and Mining (Board) at their next regularly scheduled hearing on April 24, 1996, requesting approval of the form and amount of reclamation surety. After the Board gives their approval and providing no adverse comments are received by May 3, 1996, (the end of the 30-day public notice period), the Division will then grant final approval of this permit application.

Thank you for your help in finalizing this permitting action. We await your surety and reclamation contract. If you have any questions regarding this letter or need assistance in preparing the surety forms, please contact me or Lynn Kunzler of my staff.

Sincerely,


for D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
Enclosure: Reclamation Surety Estimate
cc: Edie Trimmer, SL & F
M003037.tap



RECLAMATION ESTIMATE

last revision 03/26/96

North Shore Limited

filename m03-37.wb2

North Shore Natural Process Mine

page name "estimate"

M/003/037

Box Elder County

Prepared by Utah State Division of Oil, Gas & Mining

- Areas used in this estimate were measured off the maps received 1/8/96 & 3/25/96
- Pre-existing features included the pond, outlet & inlet ditches, fence & access road
- Exterior pond dikes will be graded to a maximum of 2h:1v slope
- Top 2-3 ft of interior dikes will be rounded off with a bulldozer
- A 20 ft breach to be made at the southern end of 3 interior ponds to allow drainage
- New roads & pads will be ripped prior to seeding (i.e. equipment parking area)
- Outlet drain and inlet ditch will be graded to approximate pre-mining condition
- ASSUME exterior dikes are 6 ft high with 6 ft surface; (12.3 CF per LF regraded to 2h:1v)
- ASSUME interior dikes are 4 ft high with 4 ft surface; (6.0 CF per LF rounded edges)
- Regraded dike surfaces & parking area to be seeded 4.1 acres
- Pond area including dike, roads & interior pond dikes ==> 15.9 acres
- Equipment parking area adjacent to pond ==> 1.5 acres
- Outlet drain ditch from pond to inlet ditch ==> 2.0 acres
- Inlet ditch from pond to avg. shoreline of Great Salt Lake ==> 1.0 acres
- Estimated total disturbed acreage = **20.4 acres**

<u>Activity</u>	<u>Amount</u>	<u>units</u>	<u>\$/unit</u>	<u>\$</u>	<u>notes</u>
3 - 20 ft breaches in exterior dikes	226.8	CY	0.25	57	(1)
Regrade exterior pond dikes (2h:1v)	1,827.7	CY	0.25	457	(1)
Round edges of interior dikes	235.6	CY	0.25	59	(1)
Rip equipment parking area(0.9 mph	1.5	acre	323	485	(2)
Regrade outlet drain ditch (1,460 LF	365	CY	0.25	91	(1)
Regrade inlet ditch (860 LF)	215	CY	0.25	54	(1)
Seed regraded dikes & parking	4.1	acre	150	619	(3)
General site cleanup (est 25% area)	5.1	acre	50	255	(4)
Mobilization	1	equip	1,000	1,000	(5)
		Subtotal		3,076	
Add 10% contingency				308	
		1996-\$ Subtotal		3,383	
Add 5 years escalation at 2.58%				460	
		Total 2001-\$		3,843	

Rounded Total in 2001-\$**\$3,800**

Average cost per disturbed acre =

\$186

RECLAMATION ESTIMATE

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- (1) 50 ft push, D9N, U-blade; 75.6 CY per breach
- (1) 50 ft push, D9N, U-blade; 12.3 CF per LF dike
- (1) 50 ft push, D9N, U-blade; 6 CF per LF dike
- (2) D9N @ 0.9 mph
- (1) 50 ft push, D9N, U-blade; 60% max ditch x-section
- (1) 50 ft push, D9N, U-blade; 60% max ditch x-section
- (3) DOGM estimate; \$60 application, \$80 seed, \$10 remote
- (4) DOGM estimate of general debris cleanup
- (5) DOGM estimate of mob/demob